CLAIMS

What is claimed is:

1. A stent comprising:

a regioselective band formed *in situ* on said stent.

2. The stent of claim 1 wherein said regioselective band covers a discrete region of said stent.

3. The stent of claim 2 wherein the discrete region of said stent is a region substantially adjacent to an end of the stent.

4. The stent of claim 1 wherein a material comprising said regioselective band is dip-coated onto a discrete region of said stent as said stent rotates.

5. The stent of claim 4 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

6. The stent of claim 4, in which said material has a high creep compliance and has a modulus of elasticity less than that of a second material comprising said stent.

7. The stent of claim 1 wherein a material comprising said regioselective band is dip-coated onto a discrete region of said stent as said stent rotates.

8. The stent of claim 7 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

9. The stent of claim 7, in which said material has a high creep compliance and has a modulus of elasticity less than that of a second material comprising said stent.

10. The stent of claim 1 wherein said regioselective band is a regioselective strip.

11. The stent of claim 10 wherein said regioselective strip is formed by slidably moving said stent as a material comprising said regioselective strip is drip-coated onto said stent.

12. The stent of claim 11 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

13. The stent of claim 10 wherein said regioselective strip is formed by slidably and rotatably moving said stent as a material comprising said regioselective strip is drip-coated onto said stent.

14. The stent of claim 13, in which said material has a high creep compliance and has a modulus of elasticity less than that of a second material comprising said stent.

15. The stent of claim 13 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

16. A composite stent comprising:

an expandable structural frame comprised of a first material having a first modulus of elasticity; and

an annular band disposed on a discrete region of the expandable structural frame, the band comprised of a regioselective material having a high creep compliance and having a second modulus of elasticity lower than the first material.

17. The composite stent of claim 16 wherein the discrete region is a region substantially adjacent to an end of the stent.

18. The stent of claim 16 wherein the regioselective material is drip-coated onto a discrete region of said stent as said stent rotates.

19. The stent of claim 18 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

20. The stent of claim 16 wherein the regioselective material is dip-coated onto a discrete region of said stent as said stent rotates.

21. The stent of claim 20 wherein said material includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

22. A method, comprising:

providing an expandable stent comprising a structural material having a first modulus of elasticity;

preparing a viscous solution comprising a regioselective material having a high creep compliance;

disposing the viscous solution on a discrete region of the stent;

moving the stent to form the viscous solution on the discrete region of the stent; and

curing the viscous solution *in situ*.

23. The method of claim 22 wherein the discrete region is a region substantially adjacent an end of the stent.

24. The method of claim 22 wherein said regioselective material has a second modulus of elasticity lower than the first modulus of elasticity.

25. The method of claim 24 wherein disposing the viscous solution comprises dripping the viscous solution onto the discrete region of the stent.

26. The method of claim 25 wherein the viscous solution includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.

27. The method of claim 25 wherein moving the stent comprises rotating the stent to form a band on the discrete region of the stent.

28. The method of claim 25 wherein moving the stent comprises sliding the stent to form a strip on the discrete region of the stent.

29. The method of claim 25 wherein moving the stent comprises rotating and sliding the stent to form a helical strip on the discrete portion of the stent.

30. The method of claim 24 wherein disposing the viscous solution comprises dipping the discrete region of the stent into the viscous solution.

31. The method of claim 30 wherein the viscous solution includes a therapeutic agent selected from the group consisting of a radioactive emitter, an anti-platelet drug, and an anti-proliferative drug.